



PTO 1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. EOS-010 (5066-4010)		SERIAL NO. 09/032,450								
LIST OF PRIOR ART CITED BY APPLICANT <div style="text-align: center;">S</div>				APPLICANT GUTKOWICZ-KRUSIN ET AL.										
				FILING DATE February 27, 1998		GROUP 271 2723								
U.S. PATENT DOCUMENTS														
Examiner Initial		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
MD	AA	5	7	4	9	8	3	0	5/1998	Kaneko et al.	600	160	10/94	
MD	AB	5	7	0	1	9	0	2	12/1997	Vari et al.	600	473	12/94	
MD	AC	5	6	9	9	7	9	8	12/1997	Hochman et al.	600	420	06/95	
MD	AD	5	5	9	0	6	6	0	1/1997	MacAulay et al.	600	478	03/94	
MD	AE	5	5	2	8	7	0	3	6/1996	Lee	382	257		
MD	AF	5	5	1	5	4	4	9	5/1996	Tsuruoka et al.	382	128		
MD	AG	5	4	2	1	3	3	7	6/1995	Richards-Kortum et al.	600	477		
MD	AH	5	4	0	8	9	9	6	4/1995	Salb	600	317		
MD	AI	5	3	6	9	4	9	6	11/1994	Alfano et al.	600	477		
MD	AJ	5	3	6	3	8	5	4	11/1994	Martens et al.	600	477		
MD	AK	5	2	4	1	4	6	8	8/1993	Kenet	600	300		
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No	
MD	AL	0	6	5	0	6	9	4	5/1995	Europe	A61B	5/00	X	
MD	AM	0	3	5	9	4	3	3	3/1990	Europe	A61B	5/05	X	
	AN													
	AO													
	AP													
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
MD	AR	"Border irregularity: atypical moles versus melanoma", C.L. Huang et al., Eur J Dermatol, Vol. 6, pp. 270-273, June 1996												
MD	AS	"In vivo Spectrophotometric Evaluation of Neoplastic and Non-Neoplastic Skin Pigmented Lesions. III. CCD Camera-Based Reflectance Imaging", R. Marchesini et al., Photochemistry and Photobiology, Vol. 62, No. 1, pp. 151-154; 1995												
MD	AT	"The Morphologic Criteria of the Pseudopod in Surface Microscopy", S.W. Menzies, et al., Arch Dermatol, Vol. 131, pp. 436-440, April 1995												
EXAMINER Dehreda Pastor		DATE CONSIDERED 9/25/99												
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														



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				FILING DATE February 27, 1998		GROUP 27212723								
U.S. PATENT DOCUMENTS														
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MD	AA	5	1	7	4	2	9	7	12/1992	X aikuzono	600	476		
MD	AB	5	0	3	6	8	5	3	8/1991	Jeffcoat et al.	600	342		
MD	AC	5	0	0	3	9	7	7	4/1991	Suzuki et al.	600	317		
MD	AD	4	9	5	7	1	1	4	9/1990	Zeng et al.	600	476		
MD	AE	4	9	3	0	5	1	6	6/1990	Alfano et al.	600	477		
MD	AF	4	8	9	4	5	4	7	1/1990	Leffell et al.	250	461.2		
MD	AG	4	8	2	1	1	1	7	4/1989	Sekiguchi	348	68		
MD	AH	4	7	7	3	0	9	7	9/1988	Suzaki et al.	382	128		
MD	AI	4	7	6	8	5	1	3	9/1988	Suzuki et al.	600	476		
MD	AJ	4	5	5	6	0	5	7	12/1985	Hiruma et al.	600	476		
MD	AK	4	5	0	5	5	8	3	3/1985	Konomi	356	73		
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		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	Translation Yes No	
	AL													
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)														
MD	AR	"A rudimentary system for automatic discrimination among basic skin lesions on the basis of color analysis of video images", H. Takiwaki et al., Journal of the American Academy of Dermatology, Vol. 32, No. 4, pp. 600-604, April 1995												
MD	AS	"Topodermatographic Image Analysis for Melanoma Screening and the Quantitative Assessment of Tumor Dimension Parameters of the Skin", H. Voigt et al., CANCER, Vol. 75, No. 4, February 15, 1995												
MD	AT	"Application of an artificial neural network in epiluminescence microscopy pattern analysis of pigmented skin lesions: a pilot study", M. Binder et al., British Journal of Dermatology 130: pp. 460-465; 1994												
EXAMINER <i>Uehrdad Dastur</i>		DATE CONSIDERED 9/25/99												
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LIST OF PRIOR ART CITED BY APPLICANT																				APPLICANT GUTKOWICZ-KRUSIN ET AL.											
FILING DATE February 27, 1998																				GROUP <u>272</u> <u>2723</u>											
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<i>MD</i>	AA	4	2	3	6	0	8	2	11/1980	Butler	250	461.1																			
<i>MD</i>	AB	4	1	7	0	9	8	7	10/1979	Anselmo et al.	600	475																			
<i>MD</i>	AC	3	3	3	5	7	1	6	8/1967	Alt et al.	-	-																			
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)																															
<i>MD</i>	AR	"Computer image analysis in the diagnosis of melanoma", A. Greene et al., Journal of the																													
		American Academy of Dermatology; Vol. 31, No. 6, pp. 958-964, 1994																													
<i>MD</i>	AS	"Computerized Digital Image Analysis: An Aid for Melanoma Diagnosis", A.J. Sober et al.,																													
		The Journal of Dermatology, Vol. 21, pp. 885-890, 1994																													
<i>MD</i>	AT	"Neural Network Diagnosis of Malignant Melanoma From Color Images", F. Ercal et al., IEEE																													
		Transactions of Biomedical Engineering, Vol. 41, No. 9, pp. 837-845, September 1994																													
EXAMINER <i>Michael Dastin</i>		DATE CONSIDERED <u>9/25/99</u>																													
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)																																							
<i>MD</i>	AR	"The ABCD rule of dermatology", F. Nachbar et al., Journal of the American Academy of Dermatology, Vol. 3, No. 4, pp. 551-559, April 1994																																					
<i>MD</i>	AS	"Evaluation of different image acquisition techniques for a computer vision system in the diagnosis of malignant melanoma", T. Schindewolf et al., Journal of the American Academy of Dermatology, Vol. 31, No. 1, pp. 33-41, July 1994																																					
<i>MD</i>	AT	"Detection of Skin Tumor Boundaries in Color Images", F. Ercal et al., IEEE Transactions of Medical Imaging, Vol. 12, No. 3, pp. 624-627, September 1993																																					
EXAMINER <i>Deborah Dastin</i>										DATE CONSIDERED <i>9/25/99</i>																													
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LIST OF PRIOR ART CITED BY APPLICANT <div style="text-align: center; font-size: 2em;">9</div>				APPLICANT GUTKOWICZ-KRUSIN ET AL.								
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)												
MD	AR	"Automatic Color Segmentation Algorithms with Application to Skin Tumor Feature Identification", S.E. Umbagh et al., IEEE Engineering in Medicine and Biology, pp. 75-82, September, 1993										
MD	AS	"Comparison of classification rates for conventional and dermatoscopic images of malignant and benign melanocytic lesions using computerized colour image analysis", T. Schindewolf et al., Eur J Dermatol, Vol. 3, No. 4, pp. 299-303, May 1993										
MD	AT	"Classification of Melanocytic Lesions with Color and Texture Analysis Using Digital Image Processing", T. Schindewolf et al., The International Academy of Cytology, Analytical and Quantitative Cytology and Histology, Vol. 15, No. 1, pp. 1-11, February 1993										
EXAMINER <i>Wahid Dastour</i>		DATE CONSIDERED <i>9/25/99</i>										
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.												



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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)										
<i>MD</i>	AR	J	"Clinical Diagnosis of Pigmented Lesions Using Digital Epiluminescence Microscopy", R.O. Kenet et al., Arch Dermatol, Vol. 129, pp. 157-174; February 1993							
<i>MD</i>	AS	J	"Optical properties of human dermis in vitro and in vivo", R. Graaff et al., Applied Optics, Vol. 32, No. 4, pp. 435-447, February 1, 1993							
<i>MD</i>	AT	J	"Automatic Detection of Irregular Borders in Melanoma and Other Skin Tumors", J.E. Golston et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 199-203, 1992							
EXAMINER <i>Mehrdad Dastan</i>			DATE CONSIDERED <i>9/25/99</i>							
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						FILING DATE February 27, 1998		GROUP 2721 2723				
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)												
<i>MD</i>	AR	"Automatic Detection of Asymmetry in Skin Tumors", W.V. Stoecker et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 191-197, 1992										
<i>MD</i>	AS	"Results obtained by using a computerized image analysis system designed as an aid to diagnosis of cutaneous melanoma", N. Cascinelli et al., Melanoma Research, Vol. 2, pp. 163-170, 1992										
<i>MD</i>	AT	"An Automatic Color Segmentation Algorithm with Application to Identification of Skin Tumor Borders", S.E. Umbaugh et al., Computerized Medical Imaging and Graphics, Vol. 16, No. 3, pp. 227-235, May-June 1992										
EXAMINER <i>Mehrdad Dastour</i>		DATE CONSIDERED <i>9/25/99</i>										
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<i>MD</i>	AR ↓	"Automatic Color Segmentation of Images with Application to Detection of Variegated Coloring in Skin Tumors", S.W. Umbaugh et al., IEEE Engineering in Medicine and Biology Magazine, December 1989, PP. 43-52										
<i>MD</i>	AS ↓	"Multispectral Imaging of Burn Wounds: A New Clinical Instrument for Evaluating Burn Depth", M.A. Afromowitz et al., IEEE Transactions on Biomedical Engineering, Vol. 35, No. 10, pp. 842-850; October 1988										
<i>MD</i>	AT ↓	"In vivo epiluminescence microscopy of pigmented skin lesions. I. Pattern analysis of pigmented skin lesions", H. Pehamberger et al., Journal of American Academy of Dermatology, Vol. 17, No. 4, pp. 571-583, October 1987										
EXAMINER <i>dehaded Dastan</i>		DATE CONSIDERED <i>9/25/99</i>										
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LIST OF PRIOR ART CITED BY APPLICANT <div style="text-align: center;">13</div>				APPLICANT GUTKOWICZ-KRUSIN ET AL.								
				FILING DATE February 27, 1998		GROUP 2721 2723						
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)												
<i>MD</i>	AR	"In vivo epiluminescence microscopy of pigmented skin lesions. II. Diagnosis of small pigmented skin lesions and early detection of malignant melanoma", A. Steiner et al., Journal of the American Academy of Dermatology, Vol. 17, No. 4, pp. 584-591; October 1987										
<i>MD</i>	AS	"The Optics of Human Skin", R.R. Anderson et al., The Journal of Investigative Dermatology, Vol. 77, No. 1, pp. 13-19; July 1981										
<i>MD</i>	AT	"Melanin, a unique biological absorber", M.L. Wolbarsht, Applied Optics, Vol. 20, No. 13, pp. 2184-2186; July 1, 1981										
EXAMINER <i>Meherdad Dastour</i>		DATE CONSIDERED <i>9/25/99</i>										
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)												
MD	AR	"The Wavelet Transform, Time-Frequency Localization and Signal Analysis", I. Daubechies,										
		IEEE Trans Inform Theory, Vol. 36, No. 5, pp. 961-1005; September 1990										
MD	AS	"Wavelet in Medicine and Biology", Aldroubi et al., C&C Press, NY, pp., 11-15, 1996										
MD	AT	"Singularity detection and processing with wavelets", S. Mallat et al., IEEE Trans Inform Theory 38:617-643; 1992										
EXAMINER Mehrdad Dastour		DATE CONSIDERED 9/25/99										
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LIST OF PRIOR ART CITED BY APPLICANT 15				APPLICANT GUTKOWICZ-KRUSIN ET AL.				
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)								
MD	AR	"Wavelets and Applications", S. Mallat et al., S. Verlag; Y. Meyer (ed.) NY pp. 207-284; 1992						
MD	AS	"Characterization of signals from multiscale edges", S. Mallat et al., IEEE Trans Patt and Mech Int'l; 14:710-732; 1992						
MD	AT	"Introduction to Statistical Pattern Recognition", K. Fukumaga, Academic Press, Boston,						
		pp. 14-96, 125, 219-221; 1990						
EXAMINER Ulrich Dastum		DATE CONSIDERED 9/25/99						
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LIST OF PRIOR ART CITED BY APPLICANT

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February 27, 1998GROUP
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OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

UD	AR		"Image Features From Phase Congruency", P. Kovesi, University of Western Australia,
			pp. 1-30; Technical Report 9/4, Revised June 1995
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Sheet 1 of 2

FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

5066-4010

SERIAL NO.

09/032,450

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANTS:

GUTKOWICZ-KRUSIN et al.

FILING DATE

February 27, 1998

GROUP ART UNIT

2721

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MD	✓	5,799,100	8/25/98	Clarke et al.	382	132	
MD	✓	5,784,162	7/21/98	Cabib et al.	356	346	
MD	✓	5,740,268	4/14/98	Nishikawa et al.	382	132	
MD	✓	5,717,791	2/10/98	Labaere et al.	382	274	
MD	✓	5,157,461	10/20/92	Page	356	350	

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Group 2700

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

MD			S.X. Zhao and T. Lu, "The Classification of the Depth of Burn Injury Using Hybrid Neural Network"; IEEE Conference on Engineering in Medicine & Biology Society, ISBN 7803-2475-7, Vol. 1, pp. 815-816, July, 1997
MD			I. Koren, A. Laine, F. Taylor, M. Lewis, "Interactive Wavelet Processing and Techniques Applied to Digital Mammography"; IEEE Conference Proceedings, ISBN 07-7803-3 192-3, Vol. 3, pp. 1415-1418, March 1996
MD			T. Lee, V. Ng, D. McLean, A. Coldman, R. Gallagher and J. Sale, "A Multi-Stage Segmentation Method for Images of Skin Lesions"; IEEE Conference Proceedings on Communication, Computers and Signal Processing, pp. 602-605, February 1995

EXAMINER

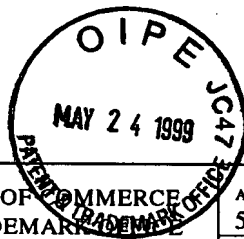
Mehrdad Dastouri

DATE CONSIDERED

9/25/99

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M&F REV. 06/29/95



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

5066-4010

SERIAL NO.

09/032,450

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANTS:

GUTKOWICZ-KRUSIN et al.

FILING DATE

February 27, 1998

GROUP ART UNIT

2721

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
						RECEIVED
						JUN 03 1999
						Group 2700

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

MD	J	B.F. Jones and P. Plassman, "An Instrument to Measure the Dimensions of Skin Wounds"; IEEE Transactions on Biomedical Engineering, Vol. 42, No. 5, pp. 464-470, May 1995
MD		R.T.J. Bostock, E. Claridge, A.J. Harget, and P.N. Hall, "Towards A Neural Network Based System For Skin Cancer Diagnosis"; IEEE International Conference on Artificial Neural Networks, pp. 215-219, ISBN 0-85296-573-7, 1993
MD		M. Herbin, A. Venot, J.Y. Devaux and C. Piette, "Color Quantitation Through Image Processing in Dermatology"; IEEE Transactions on Medical Imaging, Vol. 9, No. 1, pp. 262-269, September 1990

EXAMINER

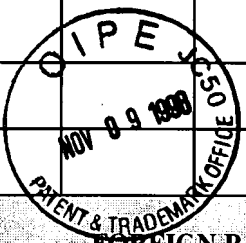
Mehrdad Dastouri

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FORM PTO-1449		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 5066-4010		SERIAL NO. 09/032,450	
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) 2				APPLICANT GUTKOWICZ-KRUSIN et al.			
				FILING DATE February 27, 1998		GROUP ART UNIT 2721	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>MP</i>	<input checked="" type="checkbox"/>	5,016,173	05-1991	Kenet et al.	<i>382</i>	<i>128</i>	



FOREIGN PATENT DOCUMENTS								
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

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EXAMINER <i>Ulriched Dastous</i>	DATE CONSIDERED <i>9/25/99</i>
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